## **TEST RESULTS**

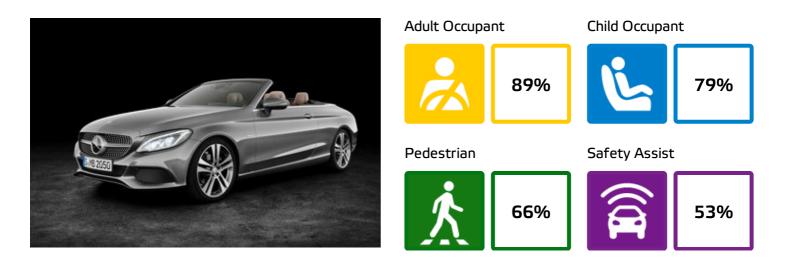




# Mercedes-Benz C-Class Cabriolet

Standard Safety Equipment





# SPECIFICATION

| Tested Model                  | Mercedes-Benz C 220d Cabriolet, LHD                   |
|-------------------------------|---|
| Body Type                     | - 2 door Cabriolet                                    |
| Year Of Publication           | 2017  |
| Kerb Weight                   | 1745kg  |
| VIN From Which Rating Applies | - all variants from WDD2054862F593831 except some 4x4 |
| Class                         | Large Family Car                                      |

# 🗲 ADVANCED REWARDS

- 2011 Mercedes-Benz Attention Assist
- 2010 Mercedes-Benz PRE-SAFE<sup>®</sup>



# SAFETY EQUIPMENT

|                          | Driver | Passenger | Rear |
|--------------------------|--------|-----------|------|
| FRONTAL CRASH PROTECTION |        |           |      |
| Frontal airbag           | ٠      | •         | ×    |
| Belt pretensioner        | •      | •         | ٠    |
| Belt loadlimiter         | •      | •         | ٠    |
| Knee airbag              | •      | ×         | ×    |
| SIDE CRASH PROTECTION    |        |           |      |
| Side head airbag         | •      | •         | ×    |
| Side chest airbag        | ٠      | •         | ٠    |
| Side pelvis airbag       | •      | •         | ×    |
| CHILD PROTECTION         |        |           |      |
| Isofix                   | —      | ×         | •    |
| Integrated CRS           | —      | ×         | ×    |
| Airbag cut-off switch    |        | •         | _    |
| SAFETY ASSIST            |        |           |      |
| Seat Belt Reminder       | ٠      | •         | ٠    |

| OTHER SYSTEMS           |   |
|-------------------------|---|
| Active Bonnet (Hood)    | • |
| AEB City                | • |
| AEB Inter-Urban         | • |
| Speed Assistance System | • |
| Lane Assist System      | 0 |

Note: Other equipment may be available on the vehicle but was not considered in the test year.

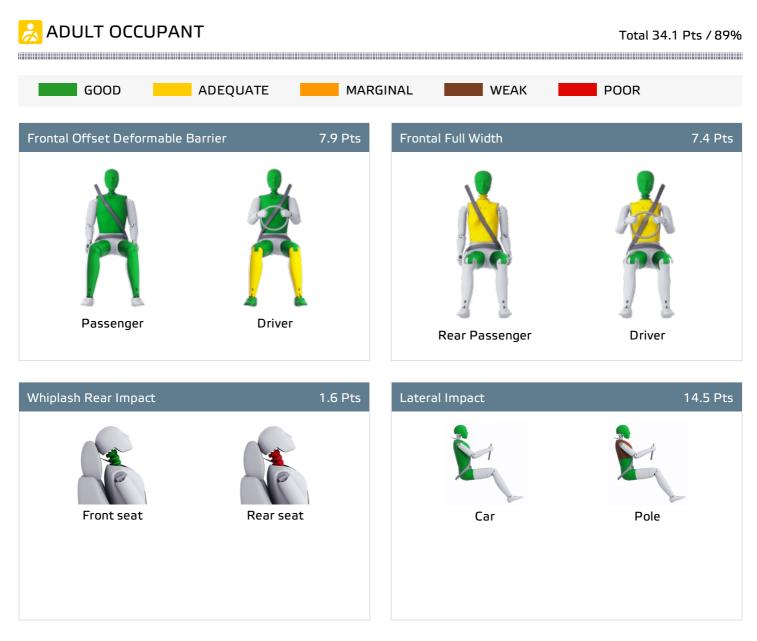
Fitted to the vehicle as standard

O Not fitted to the test vehicle but available as option or as part of the safety pack

— Not applicable

🗙 Not available







Euro NCAP © Mercedes-Benz C-Class Cabriolet Sept 2017 3/11



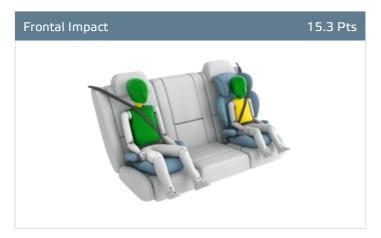
# <u> ADULT OCCUPANT</u>

Total 34.1 Pts / 89%

#### Comments

The passenger compartment remained stable in the frontal offset test. Dummy readings showed good protection of the knees and femurs of both driver and passenger. Mercedes-Benz showed that a similar level of protection would be provided for occupants of different sizes and to those sat in different positions. Protection of the passenger was good for all critical body areas. In the full-width rigid barrier test, protection of the driver and rear passenger was good or adequate. In the side barrier test, protection of the dummy was good for all critical body areas and maximum points were scored. However, in the more severe side pole test, dummy readings of rib compression indicated weak protection of the chest. Tests on the front seats and head restraints demonstrated good protection against whiplash injury in the event of a rear-end collision. A geometric assessment indicated weak whiplash protection for occupants of the rear seats. The C-Class Cabriolet has, as standard, an autonomous emergency braking system. Tests showed good performance of the functionality of this system at the low speeds at which many whiplash injuries are caused, with collisions avoided or mitigated.







Restraint for 6 year old child: *Römer KidFix XP* Restraint for 10 year old child: *Römer KidFix XP (Booster)* Safety Features

8 Pts

|  |                        |                                 |                    | Front<br>Passenger | 2nd row<br>outboard |
|--|------------------------|---------------------------------|--------------------|--------------------|---------------------|
|  |                        |                                 | Isofix             | ×                  | •                   |
|  |                        |                                 | i-Size             | ×                  | •                   |
|  |                        |                                 | Integrated CRS     | ×                  | ×                   |
| Fitted to test car as standard                       | 🔵 Not on test car      | r but available as option       | 🗙 Not available    |                    |                     |
| CRS Installation Check                               |                        |                                 |                    |                    | 11.5 Pts            |
| Install without problem                              | Install with care      | Safety critical proble          | m 🗙 Installation r | not allowed        |                     |
| i-Size CRS   |                        |                                 |                    |                    |                     |
| Maxi Cosi 2way Pearl & 2wayFix<br>(rearward) (iSize) | Maxi Cosi<br>(forward) | 2way Pearl & 2wayFix<br>(iSize) | BeSafe iZi         | Kid X2 i-Size (iS  | ize)                |
|  |                        |                                 |                    |                    | A A                 |



# 😉 CHILD OCCUPANT

Total 38.8 Pts / 79%

### ISOFIX CRS



## Römer KidFix XP (ISOFIX)



#### Universal Belted CRS



### Römer KidFix XP (Belt)





BeSafe iZi Kid X4 ISOfix (ISOFIX)









# 💪 CHILD OCCUPANT

Total 38.8 Pts / 79%

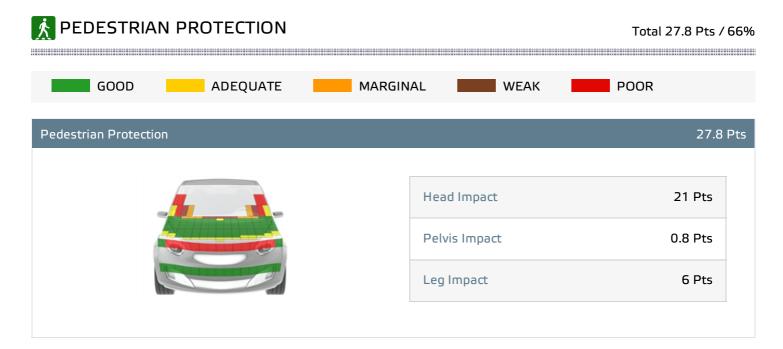
|   | Seat      | Seat Position |       |  |  |
|---|-----------|---------------|-------|--|--|
|   | Front     | 2nd row       |       |  |  |
|   | PASSENGER | LEFT          | RIGHT |  |  |
| Maxi Cosi 2way Pearl & 2wayFix (rearward) (iSize) |           |               | ٠     |  |  |
| Maxi Cosi 2way Pearl & 2wayFix (forward) (iSize)  |           |               | ٠     |  |  |
| BeSafe iZi Kid X2 i-Size (iSize)                  |           |               | ۲     |  |  |
| Maxi Cosi Cabriofix & FamilyFix (ISOFIX)          |           |               | ٠     |  |  |
| BeSafe iZi Kid X4 ISOfix (ISOFIX)                 |           | ×             | ٠     |  |  |
| Römer Duo Plus (ISOFIX)                           |           | •             | •     |  |  |
| Römer KidFix XP (ISOFIX)                          |           | •             | ٠     |  |  |
| Maxi Cosi Cabriofix (Belt)                        | •         | •             | ٠     |  |  |
| Maxi Cosi Cabriofix & EasyBase2 (Belt)            | •         |               | ٠     |  |  |
| Römer King II LS (Belt)                           | •         |               | ٠     |  |  |
| Römer KidFix XP (Belt)                            | •         |               | •     |  |  |

#### Comments

In the frontal offset test, protection of both the 6 year and 10 year dummy was good or adequate. However, in the side barrier test, the head of the 10 year dummy contacted the metal frame of the folding roof and protection was rated as poor, based on the resulting high decelerations. The C-Class Cabriolet automatically disables the front passenger airbag when a rearward-facing child restraint is positioned there. Mercedes-Benz showed that the system worked robustly and it was rewarded. Care is needed when installing the Group I ISOFIX restraint in the rear seats as the top tether anchorage is obscured. Otherwise all of the seats for which the car is designed could be installed and accommodated without problem.



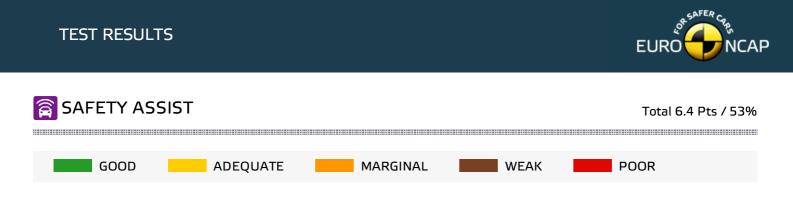
0 Pts



#### **AEB** Pedestrian

#### Comments

The C-Class Cabriolet has an 'active' bonnet. Sensors detect when a pedestrian has been struck and actuators raise the bonnet to provide greater clearance to the stiff structures in the engine compartment. Mercedes-Benz showed that the system worked robustly for different pedestrian statures and over a wide range of speeds, so tests were conducted with the bonnet in the raised position. Results were good at almost all test locations. The bumper provided good protection to pedestrians' legs and maximum points were scored in these tests. However, protection of the pelvis was predominantly poor. A pedestrian-detecting autonomous braking system is available. However, as this is an option it was not tested as part of this assessment.



## Speed Assistance

## 1.5 Pts

| System Name                      | Speed Limiter                         |
|----------------------------------|---------------------------------------|
| Speed Limit Information Function | N/A                                   |
| Warning Function                 | Active braking (no warning necessary) |
| Speed Limitation Function        | Manually set (accurate to 5km/h)      |

## Seat Belt Reminder

3 Pts

| Applies To | All seats   |                    |                   |
|------------|-------------|--------------------|-------------------|
| Warning    | Driver Seat | front passenger(s) | rear passenger(s) |
| Visual     | ٠           | •                  | •                 |
| Audible    | ٠           | •                  | •                 |



Not available



# SAFETY ASSIST

### AEB Interurban

1.9 Pts

| System Name                      | Active Brake Assist               |  |  |  |  |
|----------------------------------|-----------------------------------|--|--|--|--|
| Туре                             | Forward Collision Wa              | aming with Auto-Brake  |  |  |  |
| Operational From                 | 10 F                              | ۲m/h   |  |  |  |
| Additional Information           | Default On; Supplementary Warning |  |  |  |  |
| PERFORMANCE                      |                                   |  |  |  |  |
| Operational Speed                | 10-80 Km/h                        | 10-80 Km/h   |  |  |  |
|                                  | Autobrake Function Only           | Driver reacts to warning   |  |  |  |
| Approaching a stationary car     | See AEB City                      | Crash avoided up to 45km/h.<br>Crash speed reduced up to 60km/h. |  |  |  |
| Approaching a slower moving car  | Crash speed reduced up to 70km/h. | Crash speed reduced up to 80km/h.                                |  |  |  |
| FO                               | LLOWING A CAR AT SHORT DISTANCE   |  |  |  |  |
| Car in front brakes gently       | Mitigation                        | Mitigation   |  |  |  |
| Car in front brakes harshly      | Mitigation                        | No reaction  |  |  |  |
| FOLLOWING A CAR AT LONG DISTANCE |                                   |  |  |  |  |
| Car in front brakes gently       | Mitigation                        | Mitigation   |  |  |  |
| Car in front brakes harshly      | Mitigation                        | Mitigation   |  |  |  |

#### Comments

A driver-set speed limiter and a seatbelt reminder for the front and rear seats are fitted as standard. Also standard is the autonomous emergency braking system. Tests of this system at highway speeds demonstrated adequate performance. A lane assistance system is available as an option but is not included in this assessment.



## RATING VALIDITY

### Variants of Model Range

| Body Type        | Engine & Transmission | Model Name/Code       | Drivetrain | Rating       | Applies      |
|------------------|-----------------------|-----------------------|------------|--------------|--------------|
|                  |                       |                       |            | LHD          | RHD          |
| 2 door cabriolet | 2.2 diesel            | C 220 d Cabrio*       | 4 x 2      | ~            | ~            |
| 2 door cabriolet | 2.2 diesel            | C 220 d 4MATIC Cabrio | 4 x 4      | ×            | ×            |
| 2 door cabriolet | 2.5 diesel            | C 250 d Cabrio        | 4 x 2      | $\checkmark$ | ~            |
| 2 door cabriolet | 1.8 petrol            | C 180 Cabrio          | 4 x 2      | $\checkmark$ | ~            |
| 2 door cabriolet | 2.0 petrol            | C 200 Cabrio          | 4 x 2      | $\checkmark$ | ~            |
| 2 door cabriolet | 2.0 petrol            | C 200 4MATIC Cabrio   | 4 x 4      | ×            | ×            |
| 2 door cabriolet | 2.5 petrol            | C 250 Cabrio          | 4 x 2      | $\checkmark$ | ~            |
| 2 door cabriolet | 3.0 petrol            | C 300 Cabrio          | 4 x 2      | $\checkmark$ | $\checkmark$ |
| 2 door cabriolet | 4.0 petrol            | C400 4MATIC Cabrio    | 4 x 4      | ✓            | ~            |

\* Tested variant

### Annual Reviews and Facelifts

Date Event Outcome September 2017 Rating Published

2017 ★★★★★ ✓